

Island Astronomy Institute

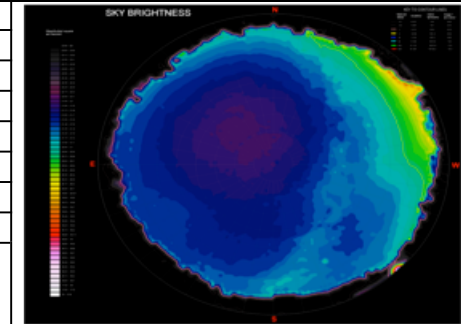


Night Sky Quality Monitoring Report

Report date: by: P Lord

Made Possible In Part by the Quimby Family Foundation & The National Park Service Challenge Cost Share Program

PARK:	Acadia	EQUIPMENT:	SBIG, 50mm f/2, 7706B
SITE NAME:	SERC	OBSERVERS:	Peter Lord & Jim Cormier
LONGITUDE:	-68.06	AIR TEMP (°F):	33
LATITUDE:	44.34027778	REL HUMID (%):	60
ELEVATION (m):	30	WIND SP (mph):	2
DATE (UT):	March 10, 2010	CCD TEMP (°C):	-20
TIME START (UT):	1:31:07	EXP (seconds):	14
DATA QUALITY:	Good	BORTLE CLASS:	ZLM:



Preliminary Summary Research Results To Be Used For Programmatic Evaluation Purposes Only. Copyright 2011, Island Astronomy Institute. This work may be freely reproduced and distributed for non commercial purposes.

SKY BRIGHTNESS DATA										1st SET LIGHT DOME DATA			
Data Set	Time (UT)	Extinction coefficient (mag/air mass)	Std Err Y Extinction Regression (mags)	Zenith (% L.P. mag/sq arc-sec)	Whole Sky (% LP mags)	Sky Above 20° Altitude (%LP mags)	Brightest (% L.P. mag/sq arc-sec)	Darkest (mag/sq arc-sec)	Index Synthetic SQM	City	Distance (km)	Azimuth	Brightness (mLUX)
1st	Start 1:31:7 End 1:50:47	0.213	0.028	21.68	-7.03	-6.56	19.77	21.99	80.4				
2nd	Start 2:34:31 End 2:54:13	0.213	0.030	21.80	-6.97	-6.50	19.72	22.03	82.5				
3rd	Start 3:37:57 End 3:57:37	0.218	0.034	21.86	-6.94	-6.47	19.69	22.07	82.2				
4th													
5th													
6th										Total Light Pollution (mLUX)			
7th										Experimental Astronomical V-Band Scale			
8th										Natural Visual Quality (100 = All Natural)			87.5

This work was supported by the National Park Service's (2008) Challenge Cost Share Program. Points of view are those of the author(s) and do not necessarily represent the position of the Department of the Interior.